

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO),	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,793		02/25/2002	Yutaka Akiba	16869N-044400US	7870
20350	7590	10/03/2003		EXAMINER	
		D TOWNSEND AN	HARPER, HOLLY R		
TWO EMBARCADERO CENTER EIGHTH FLOOR				ART UNIT	PAPER NUMBER
		CA 94111-3834		2879	
				DATE MAILED: 10/03/200	3

Please find below and/or attached an Office communication concerning this application or proceeding.

			XY /					
	Application No.	Applicant(s)						
	10/084,793	AKIBA, YUTAKA						
Office Action Summary	Examiner	Art Unit						
	Holly R. Harper	2879						
The MAILING DATE of this communication app Period for Reply	ars on the cover s	heet with the correspond nce ad	dress					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	66(a). In no event, however within the statutory minimurill apply and will expire SIX cause the application to be	r, may a reply be timely filed um of thirty (30) days will be considered timel (6) MONTHS from the mailing date of this co scome ABANDONED (35 U.S.C. § 133).	y. ommunication.					
1) Responsive to communication(s) filed on	·							
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-fina	I.						
3) Since this application is in condition for allowa closed in accordance with the practice under a Disposition of Claims			e merits is					
4) ☐ Claim(s) <u>1-31</u> is/are pending in the application								
	4a) Of the above claim(s) 1-13 is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>14-31</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or	r election requireme	ent.						
Application Papers								
9)☐ The specification is objected to by the Examiner	·.							
10)⊠ The drawing(s) filed on 25 February 2002 is/are	: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in rep	ly to this Office action	n.						
12)☐ The oath or declaration is objected to by the Exa	aminer.							
Priority under 35 U.S.C. §§ 119 and 120								
13)⊠ Acknowledgment is made of a claim for foreign	priority under 35 L	J.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:								
 Certified copies of the priority documents 	s have been receive	ed.						
2. Certified copies of the priority documents	s have been receive	ed in Application No						
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.	.2(a)).	Stage					
14) Acknowledgment is made of a claim for domestic	c priority under 35 l	J.S.C. § 119(e) (to a provisional	l application).					
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesti 								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.	5) 🔲 N	terview Summary (PTO-413) Paper No otice of Informal Patent Application (PT ther:						

Art Unit: 2879

DETAILED ACTION

Examiner's Note

There is a typographical error in claim 14. Line 6 says "substrate an said second substrate", but it should read "substrate and said second substrate".

Response to Amendment

The Amendment, filed on 7/2/2003, has been entered and acknowledged by the Examiner.

Claims 14-31 have been entered.

Claims 1-13 have been canceled.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 14-16 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Amano (USPN 5,371,437).

In regard to claim 14, the Amano reference discloses a plasma display panel with a first substrate (Figure 3, Element 1), a first electrode (Figure 3, Element 17), a second substrate (Figure 3, Element 6), a second electrode (Figure 3, Element 23), a barrier plate between the first

Art Unit: 2879

and second substrate (Figure 3, Elements 19, 20, 21), a cell defined by a region of space bounded by the first substrate, second substrate, and the barrier wall (Figure 3). There is a metal electrode that projects into the cell (Figure 3, Element 20).

In regard to claim 15, the Amano reference discloses that the projection of the metal electrode is formed at a position where it overlies the first electrode (Figure 3).

In regard to claim 16, the Amano reference discloses that the metal electrode has two projections, formed at opposing surfaces of the barrier plate. Each cell has two projections from opposing sides (Figure 3).

In regard to claim 22, the Amano reference discloses a plasma display panel with a front substrate (Figure 3, Element 1), a back substrate (Figure 3, Element 6), and a barrier plate between the front and back substrates (Figure 3, Elements 19, 20, 21). There are a plurality of cells (Figure 3). The front substrate is made of glass (Column 1, Line 55) and has an X electrode (Figure 3, Element 17). The back substrate made of glass (Column 1, Line 57) and has a Y electrode (Figure 3, Element 23). The barrier plate is made of a metal electrode having a projection that projects into an interior region of the cell at a position where the metal electrode crosses the Y electrode (Figure 3).

3. Claim14-21 and 23-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Yutaka (JP 2000-038166).

In regard to claim 14, the Yukata reference discloses a plasma display panel with a first substrate (Figure 1, Element 6), a first electrode (Figure 1, Element 10), a second substrate (Figure 1, Element 13), a second electrode (Figure 1, Element 15), a barrier plate between the first and second substrate (Figure 1, Element 5), a cell defined by a region of space bounded by

Art Unit: 2879

the first substrate, second substrate, and the barrier wall (Figure 1). There is a metal electrode that projects into the cell (Figure 18).

In regard to claim 15, the Yukata reference discloses that the projection of the metal electrode is formed at a position where it overlies the first electrode (Figure 1 and 18).

In regard to claim 16, the Yukata reference discloses that the metal electrode has two projections, formed at opposing surfaces of the barrier plate. Each cell has two projections from opposing sides (Figure 18).

In regard to claim 17, the Yukata reference discloses a metal electrode with a plurality of layers (Figure 1, Elements 5a, 5b, 5c). At least the first layer of metal has a projection where the metal electrode crosses over the first electrode (Figure 18 and 1).

In regard to claim 18, the Yukata reference discloses a plasma display panel with a first substrate (Figure 1, Element 13), a second substrate (Figure 1, Element 6), a barrier plate between the first and second substrate (Figure 1, Element 5), and a cell defined by a region of space bounded by the first substrate, second substrate, and the barrier wall (Figure 1). The first substrate has an address electrode (Figure 1, Element 15), a first dielectric layer (Figure 1, Element 16), and a first electrode such that it crosses over the address electrode (Figure 1, Element 18). The second substrate has a second electrode (Figure 1, Element 10). The metal electrode has projections where the metal electrode crosses over the first electrode (Figure 18 and 1).

In regard to claim 19, the Yukata reference discloses that the projection of the metal electrode is formed at a position where it overlaps flat with the first electrode (Figure 1 and 18).

Art Unit: 2879

4,

In regard to claim 20, the Yukata reference discloses that the metal electrode has two projections, formed at opposing surfaces of the barrier plate. Each cell has two projections from opposing sides (Figure 18).

In regard to claim 21, the Yukata reference discloses a metal electrode with a plurality of layers (Figure 1, Elements 5a, 5b, 5c). At least the first layer of metal has a projection where the metal electrode crosses over the first electrode (Figure 18 and 1).

In regard to claim 23, the Yukata reference discloses a plasma display panel with a front substrate (Figure 1, Element 6), a back substrate (Figure 1, Element 13), and a barrier plate between the front and back substrates (Figure 1, Element 5). There are a plurality of cells defined by the front substrate, back substrate, and barrier plates (Figure 9). The front substrate has an address electrode (Figure 1, Element 15), a first dielectric layer (Figure 1, Element 16), a first and second electrode formed on the dielectric layer (Figure 1, Elements 18 and 19). The first and second electrodes are in crossed relation to the address electrode. The metal electrode has projections at the position where the metal electrode crosses over one of the first and second electrodes (Figure 18 and 1).

In regard to claim 24, the Yukata reference discloses that the barrier plate has a partition between the first and second electrode and has an inverted U shape (Figure 1).

In regard to claim 25, the Yukata reference discloses that the first and second electrodes are formed alternately and the metal electrode forms a partition between them (Figure 1).

In regard to claim 26, The Yukata reference discloses that the metal electrode ha a projection where the metal electrode crosses over the first and second electrode (Figure 1 and 18).

Art Unit: 2879

In regard to claim 27, the Yukata reference discloses that the metal electrode is made of a plurality of layers (Figure 1, Elements 5a, 5b, 5c) and there is a projection located near the first electrode where the metal electrode crosses over one of the first or second electrodes (Figure 1 and 18).

In regard to claim 28, the Yukata reference discloses that the projection of the metal electrode is formed at a surface of the barrier plate, which forms the side of the cell and faces each other (Figure 18).

In regard to claim 29, the Yukata reference discloses a plasma display panel with a front substrate (Figure 1, Element 6), a back substrate (Figure 1, Element 13), and a barrier plate between the front and back substrates (Figure 1, Element 5). There are a plurality of cells defined by the front substrate, back substrate, and barrier plates (Figure 9). The front substrate has an address electrode (Figure 1, Element 15), an X electrode (Figure 1, Element 18), a Y electrode (Figure 1, Element 19), a first dielectric layer (Figure 1, Element 16), a first and second electrode formed on the dielectric layer (Figure 1, Elements 18 and 19). The front and back substrates are made of glass. The first and second electrodes are in crossed relation to the address electrode. The metal electrode has projections at the position where the metal electrode crosses over one of the X and Y electrodes. There is second projection which projects into the cell where the metal electrode crosses over the Y electrode (Figure 18 and 1).

In regard to claim 30, the Yukata reference discloses that the barrier plate has a partition between the X and Y electrode and has an inverted U shape (Figure 1).

In regard to claim 31, the Yukata reference discloses that the X and Y electrodes are formed alternately and the metal electrode forms a partition between them (Figure 1).

Art Unit: 2879

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Yutaka, Akiba (JP 2000-081699) discloses a metal barrier wall with a protrusion (Figure

1).

Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Holly Harper whose telephone number is (703) 305-7908. The

examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nimesh Patel, can be reached on (703) 305-4794. The fax phone number for the

organization where this application or proceeding is assigned is (703) 308-7382.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

PRIMARY EXAMINER

Page 7

Holly Harper Patent Examiner Art Unit 2879